

Osamu IWASAKI, et al. Q77279
LIGHT GUIDE CONTAINING LIGHT-
SCATTERING PARTICLES ARRANGED TO
REALIZE DESIRED LIGHT-OUTPUT....

Filing Date: September 3, 2003

Darryl Mexic 202-293-7060

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FIG.1

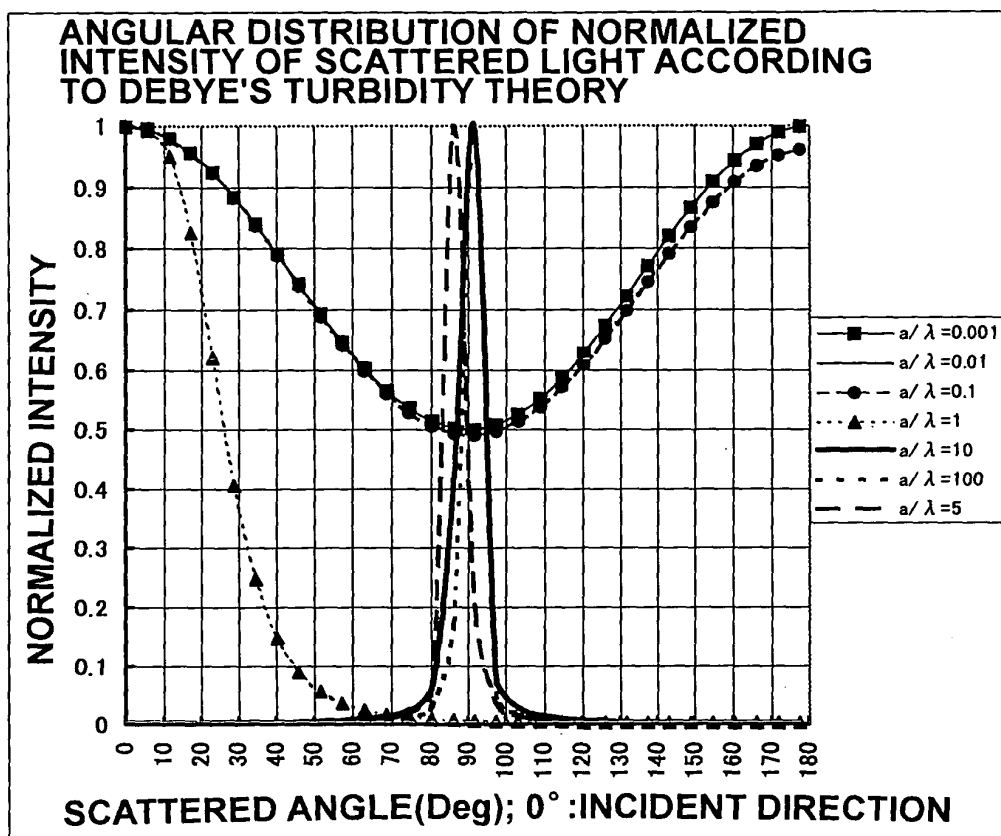


FIG.2

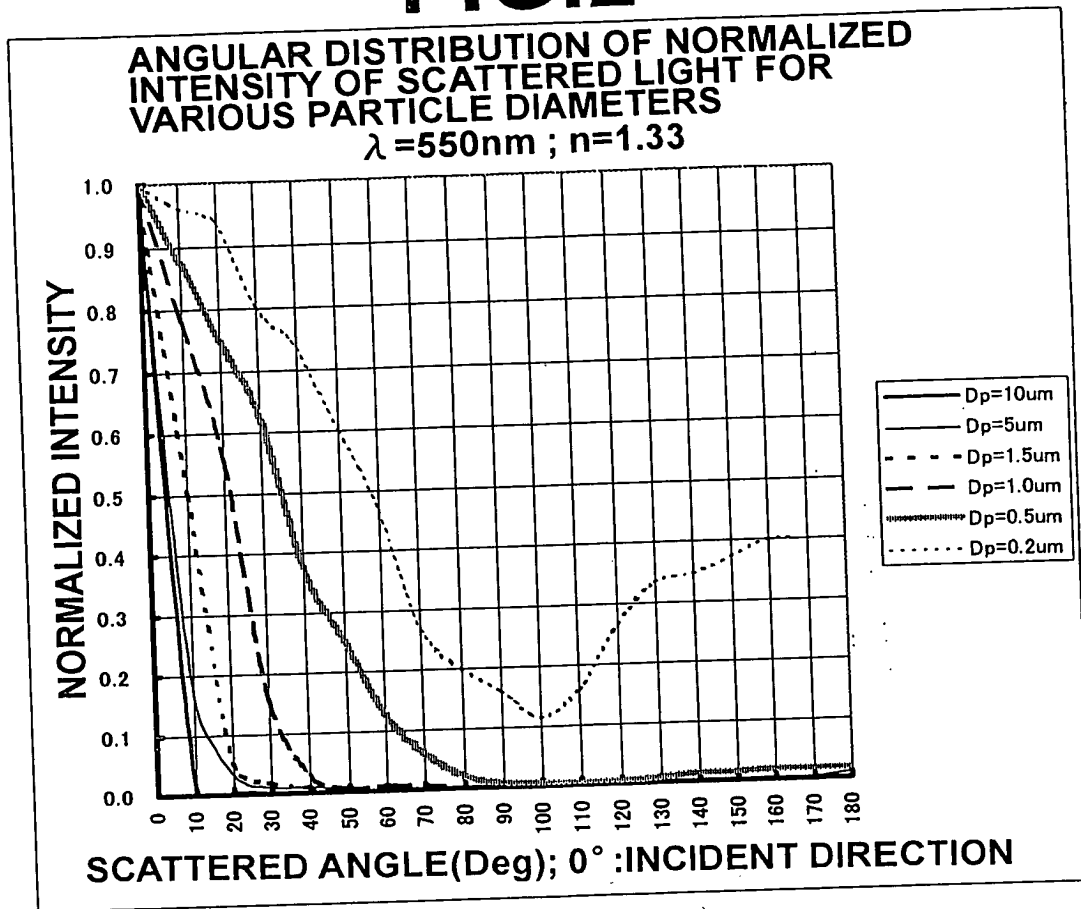


FIG.3A

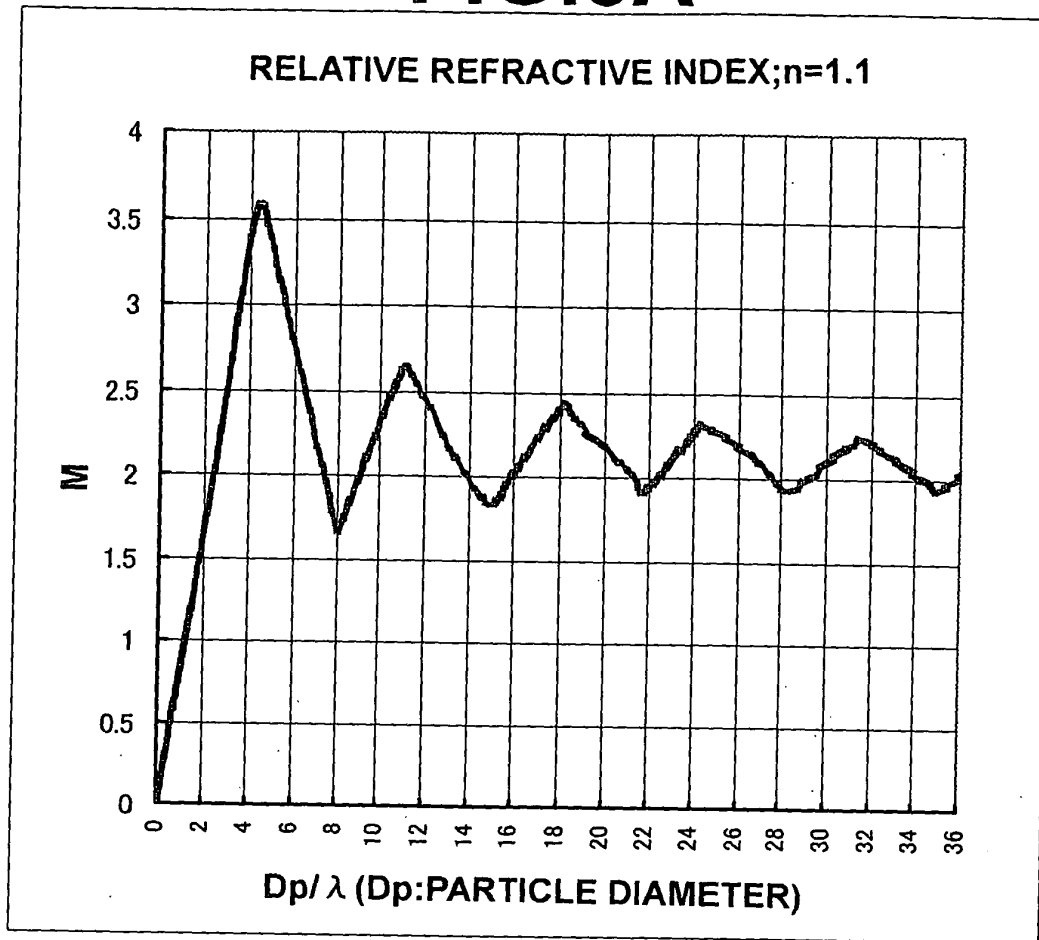


FIG.3B

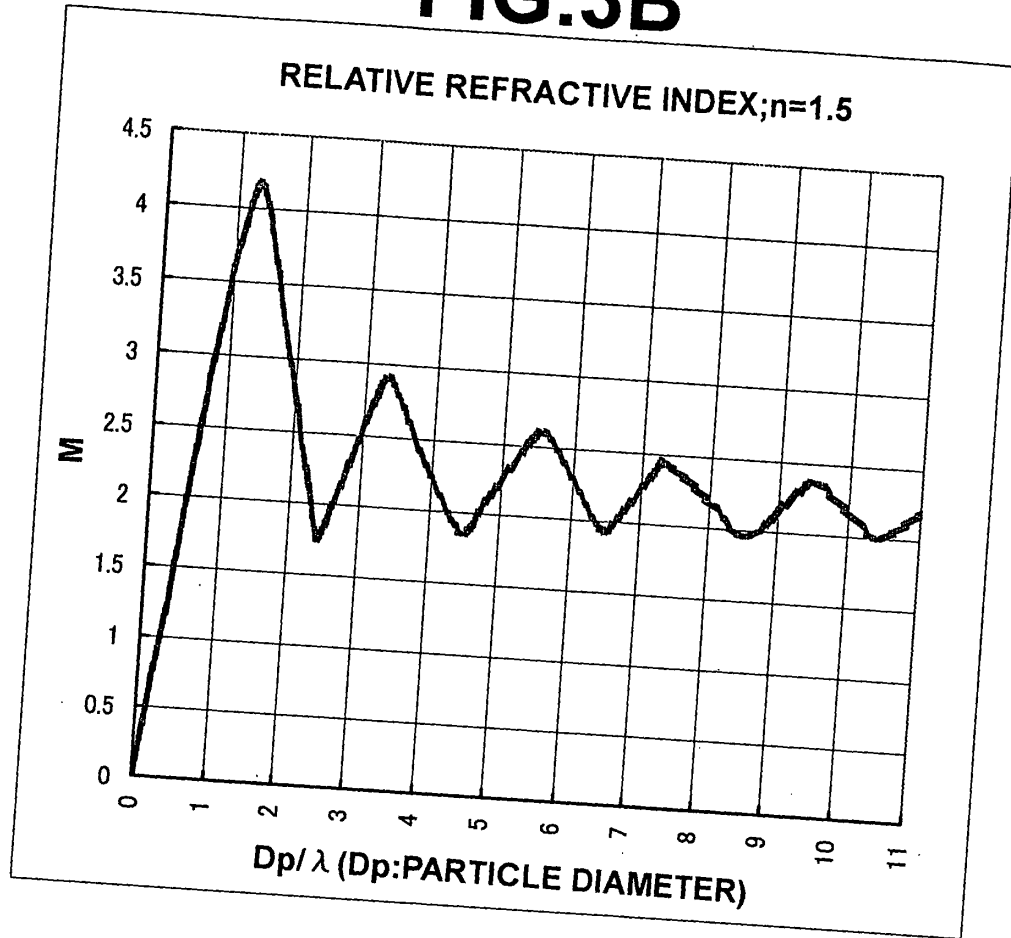
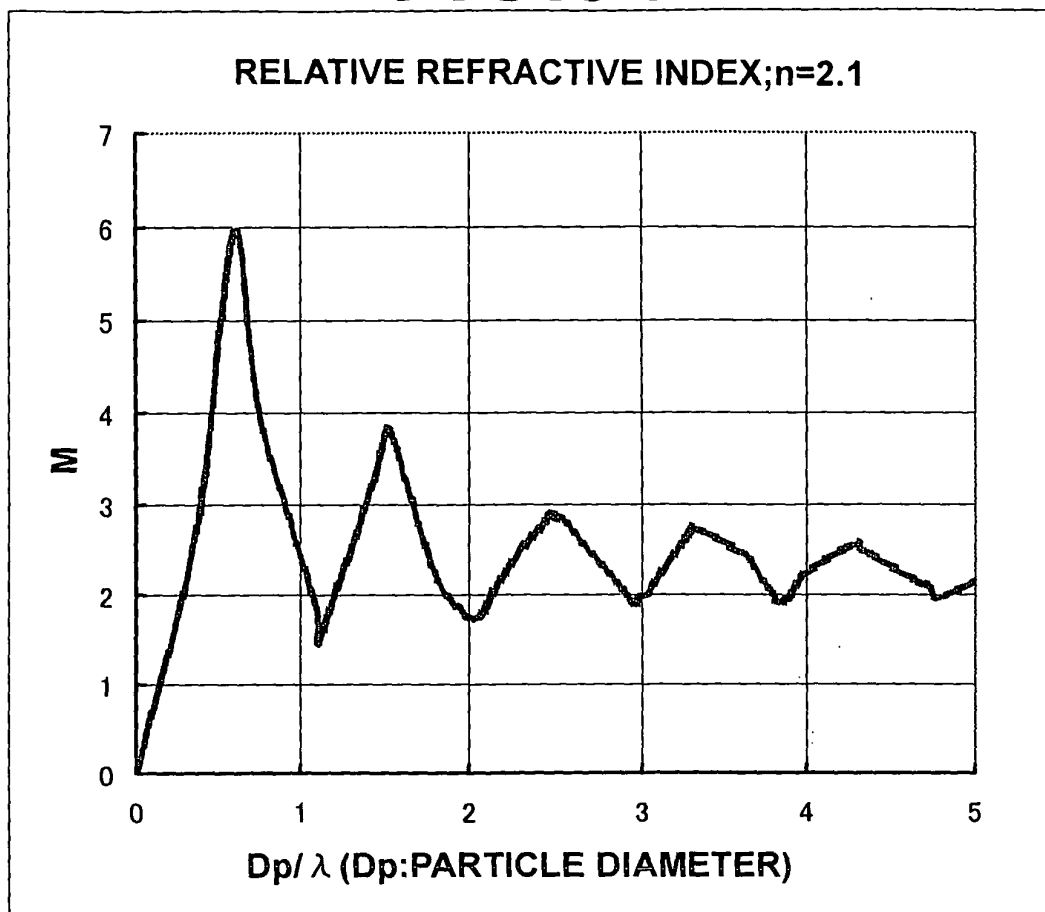


FIG.3C



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FIG.4

COMPARISON OF SCATTERING CROSS SECTIONS Rayleigh VS Fresnel(Mie'S CONVERGENCE RANGE)

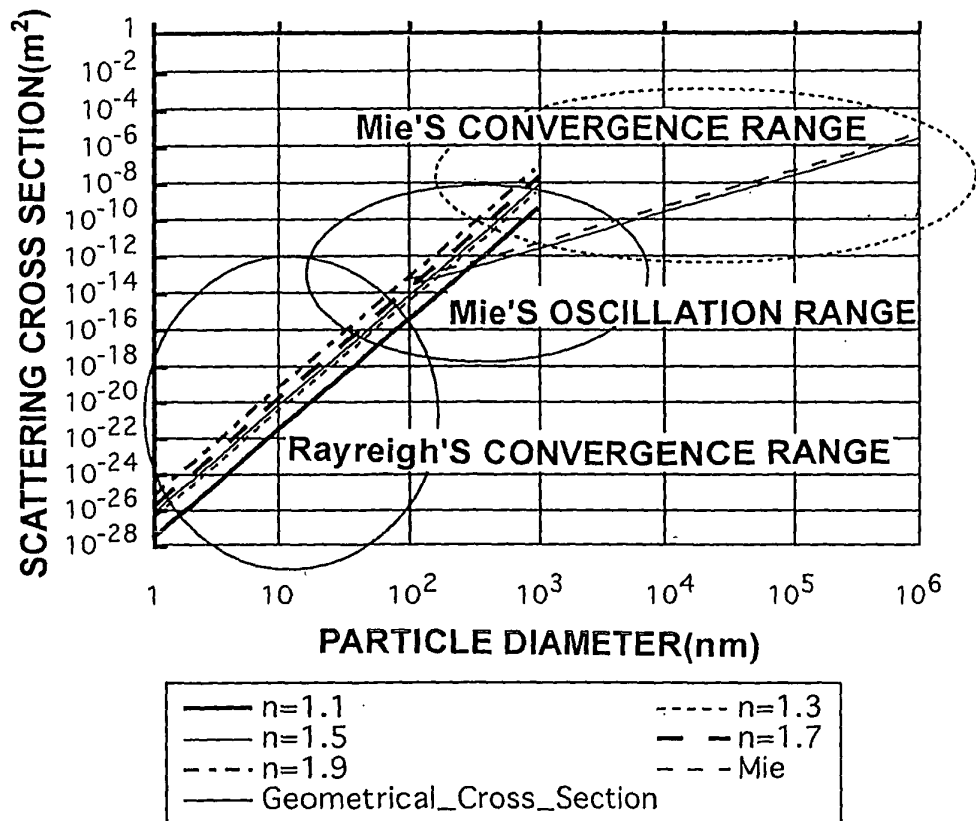


FIG.5

RELATIONSHIP BETWEEN PARTICLE DIAMETER
AND PARTICLE DENSITY WHEN LIGHT-OUTPUT
EFFICIENCY IS 80%

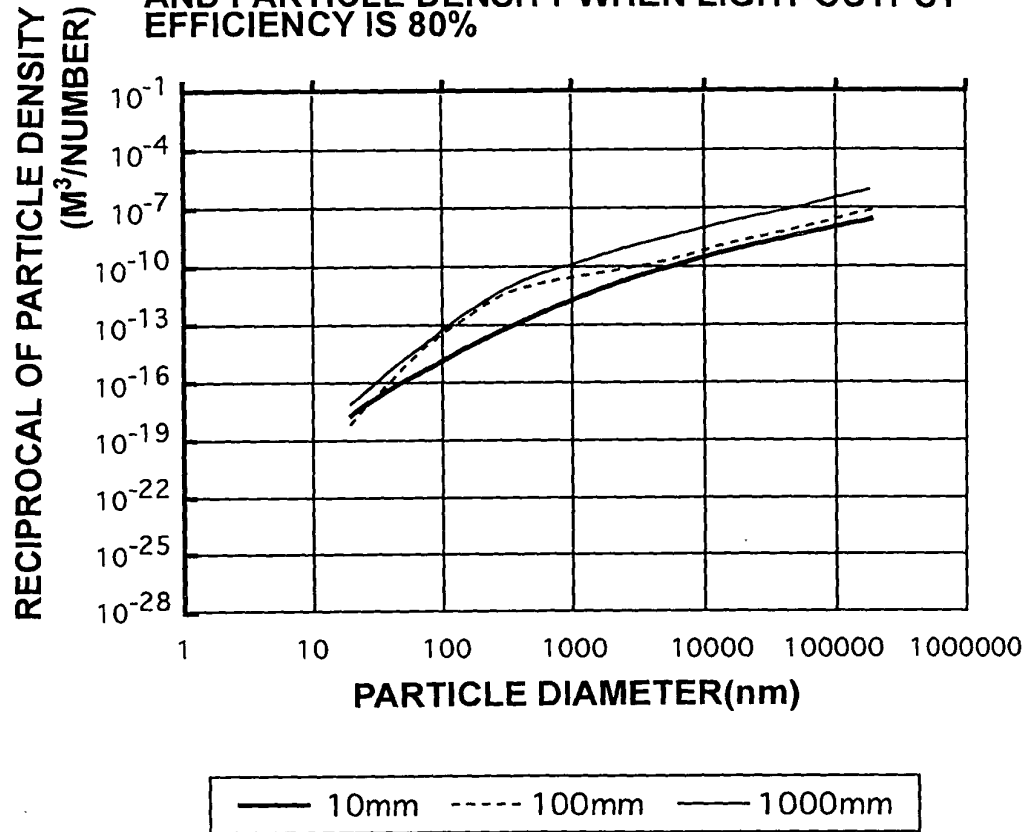


FIG.6

FRESNEL LOSS AT BOUNDARIES BETWEEN MEDIUMS HAVING DIFFERENT REFRACTIVE INDEXES

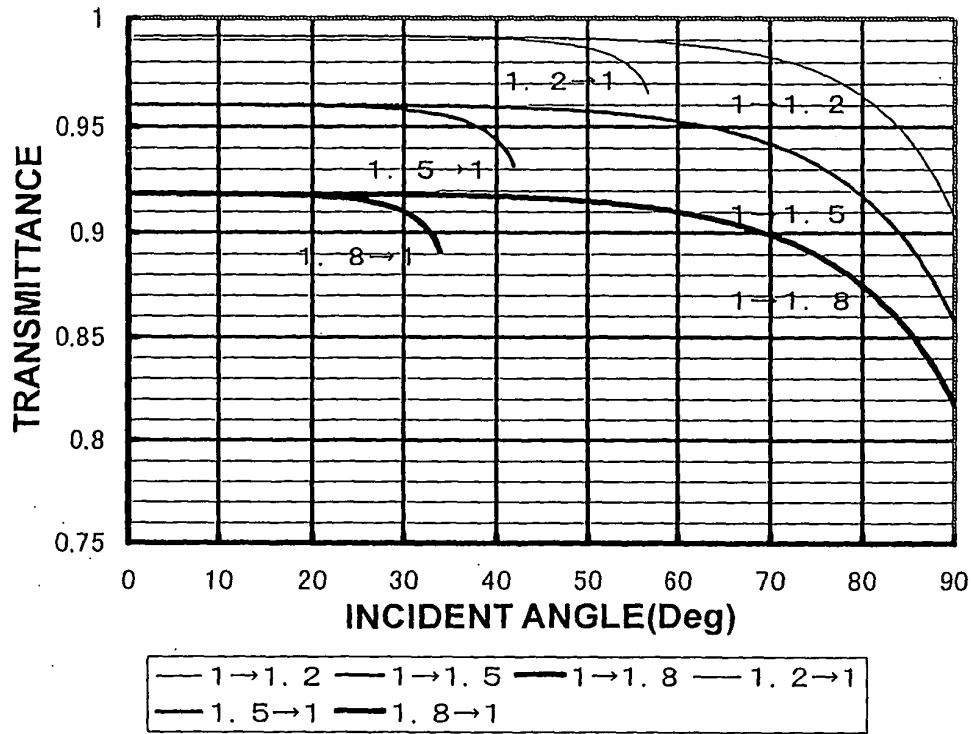


FIG.7A

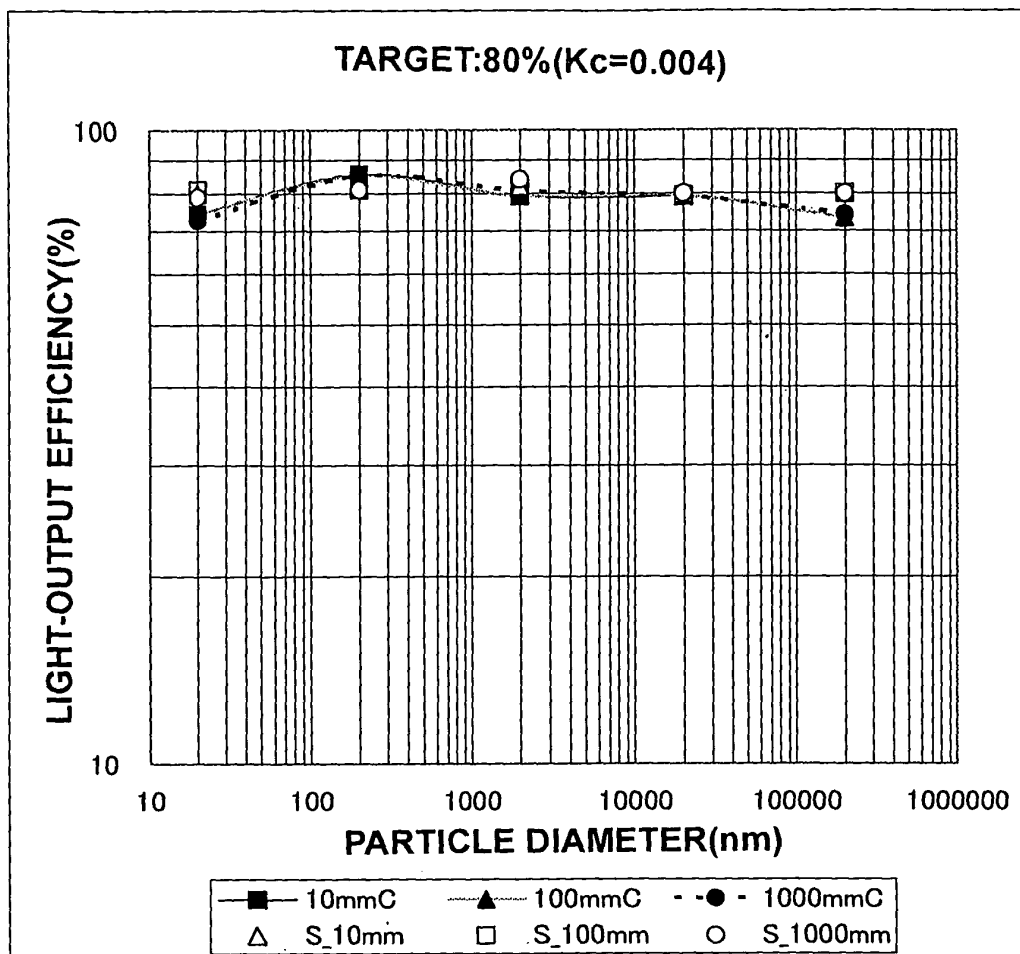


FIG.7B

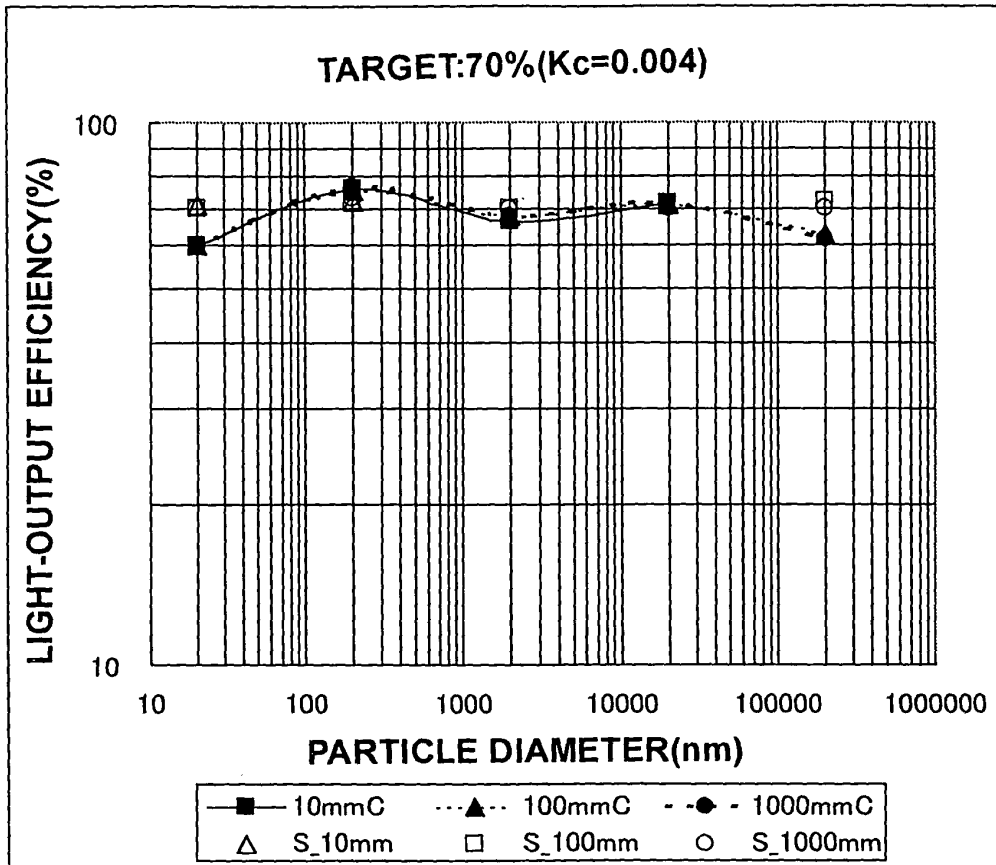


FIG.7C

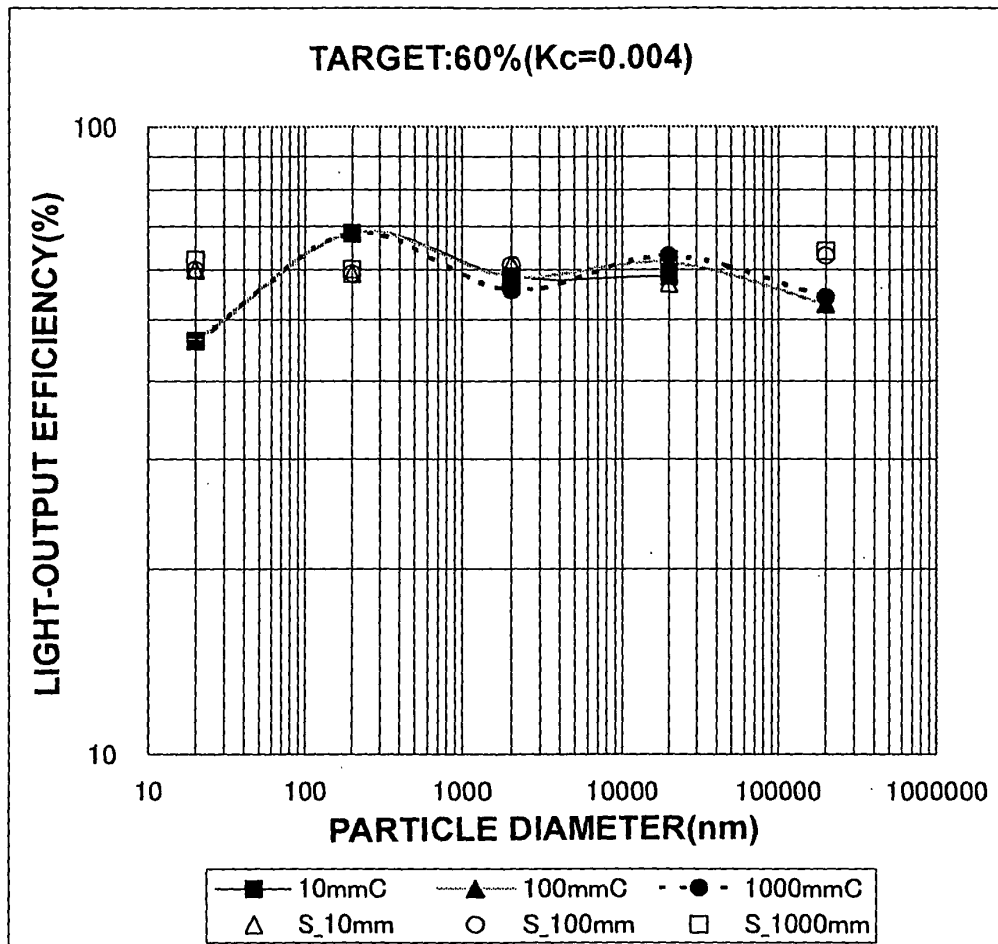


FIG.7D

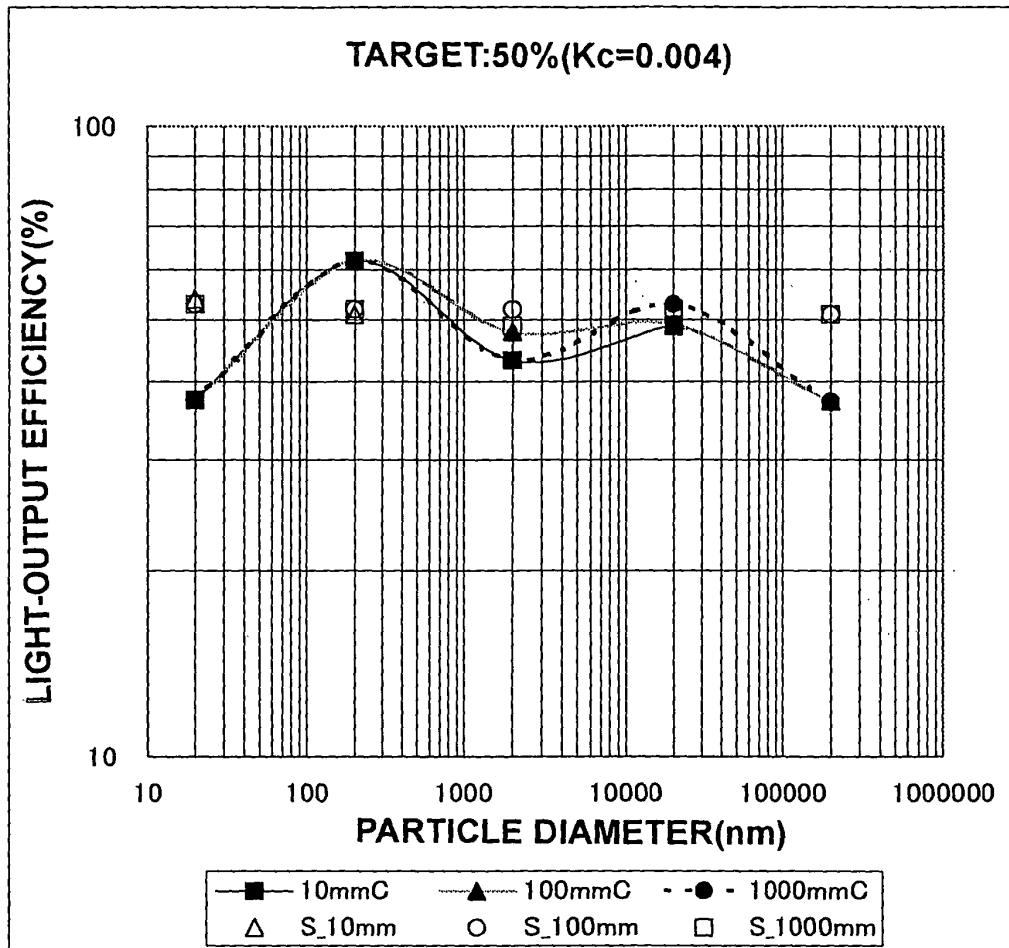


FIG.7E

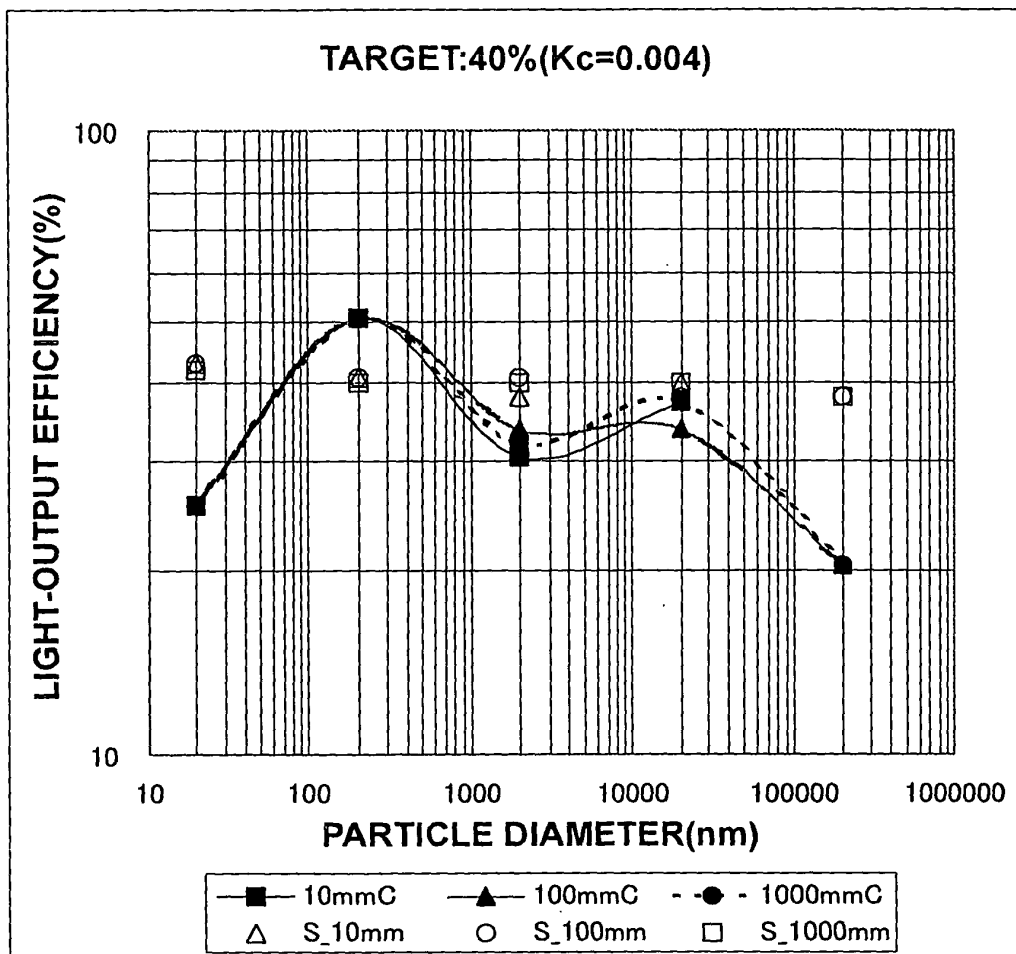


FIG.8A

INTENSITY DISTRIBUTION OF EMITTED LIGHT (SMALL-SIZE SHEET)

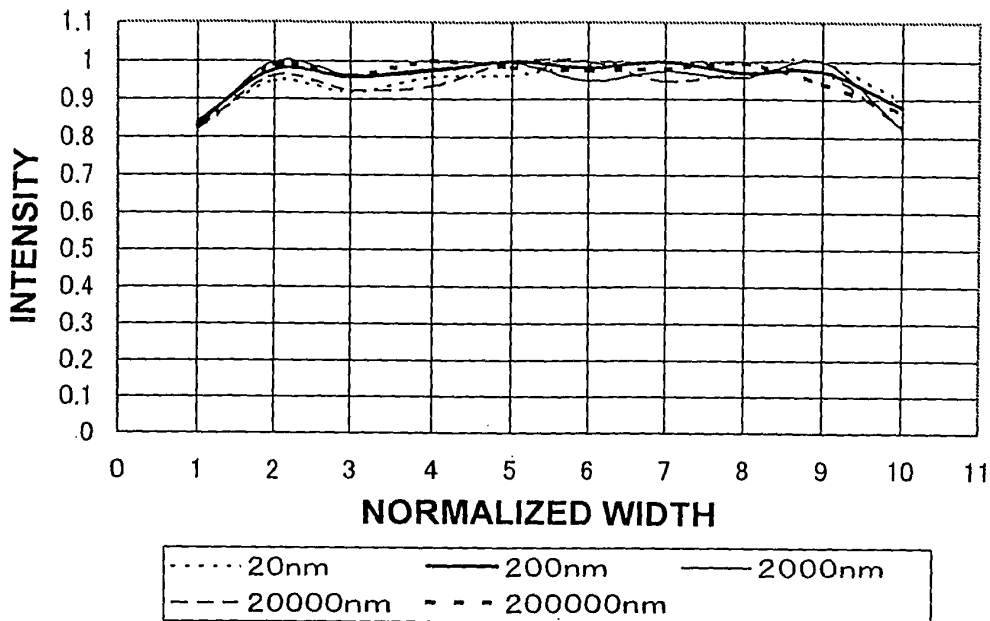


FIG.8B

INTENSITY DISTRIBUTION OF EMITTED LIGHT (MEDIUM-SIZE SHEET)

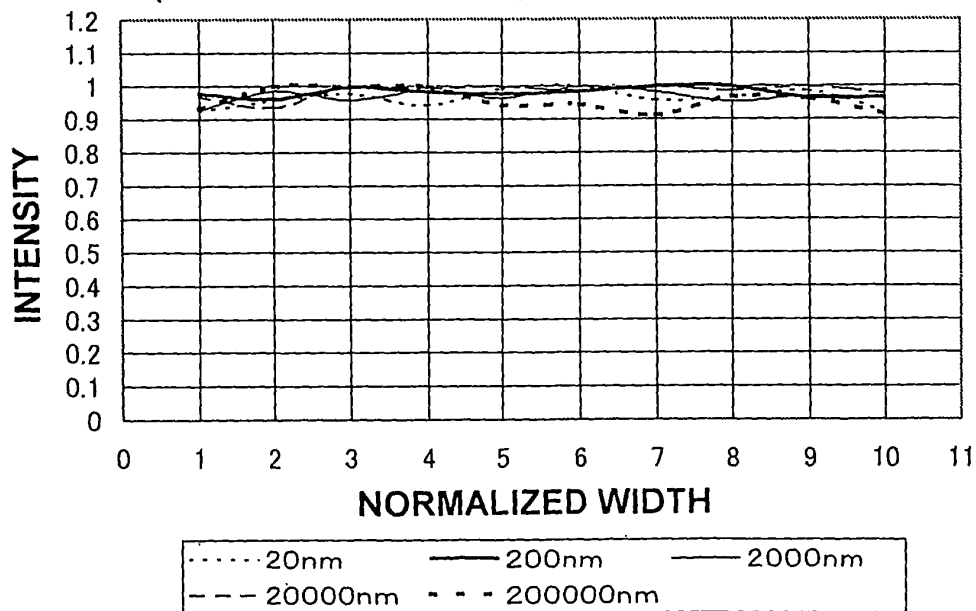


FIG.8C

INTENSITY DISTRIBUTION OF EMITTED LIGHT
(LARGE-SIZE SHEET)

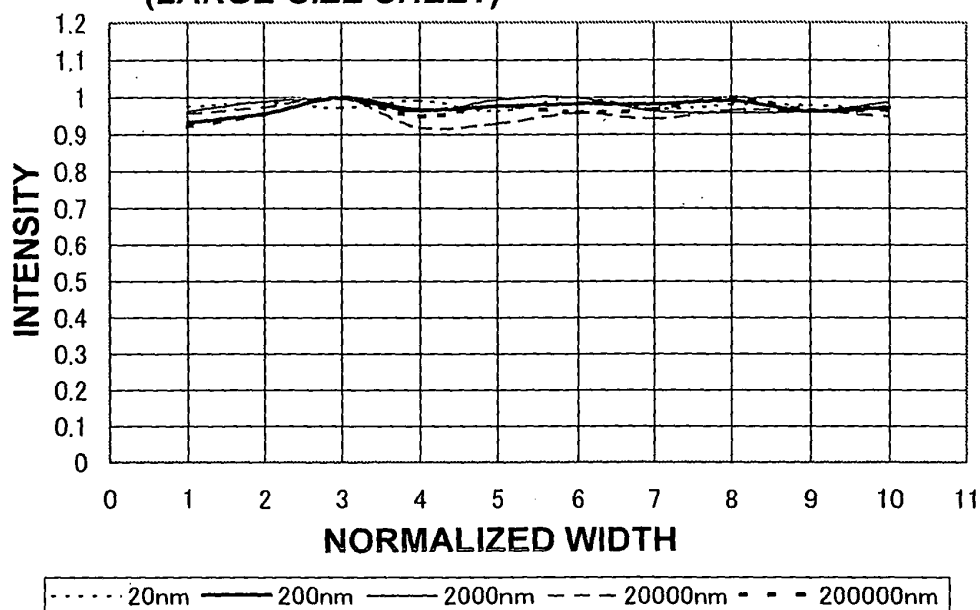


FIG.9A

INTENSITY DISTRIBUTION OF EMITTED LIGHT
(SMALL-SIZE CYLINDER)

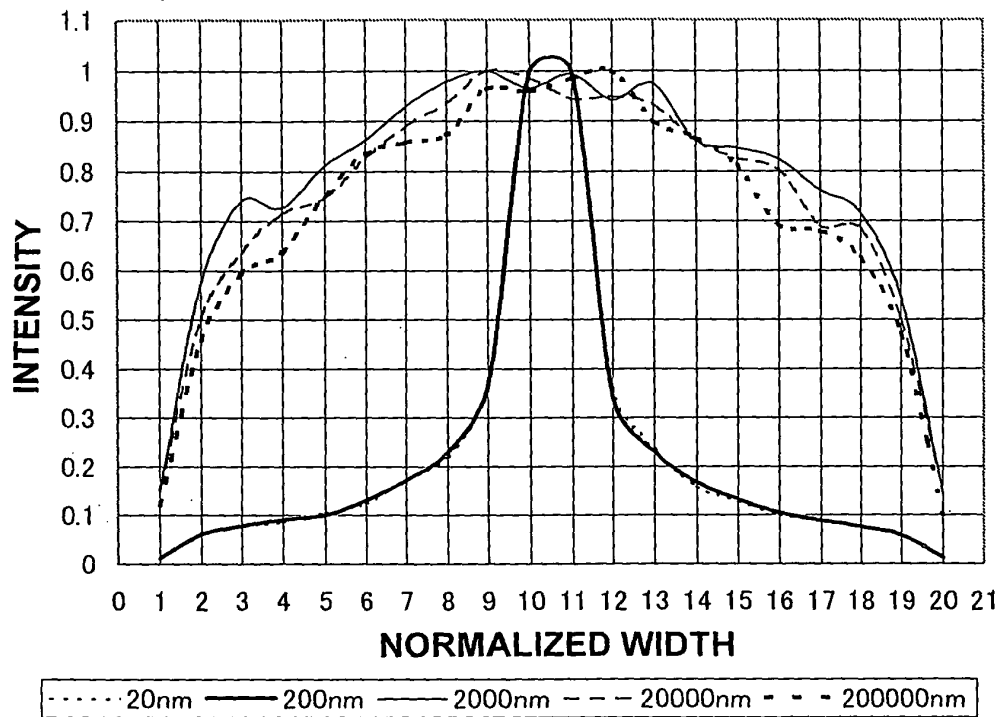


FIG.9B

INTENSITY DISTRIBUTION OF EMITTED LIGHT
(LARGE-SIZE CYLINDER)

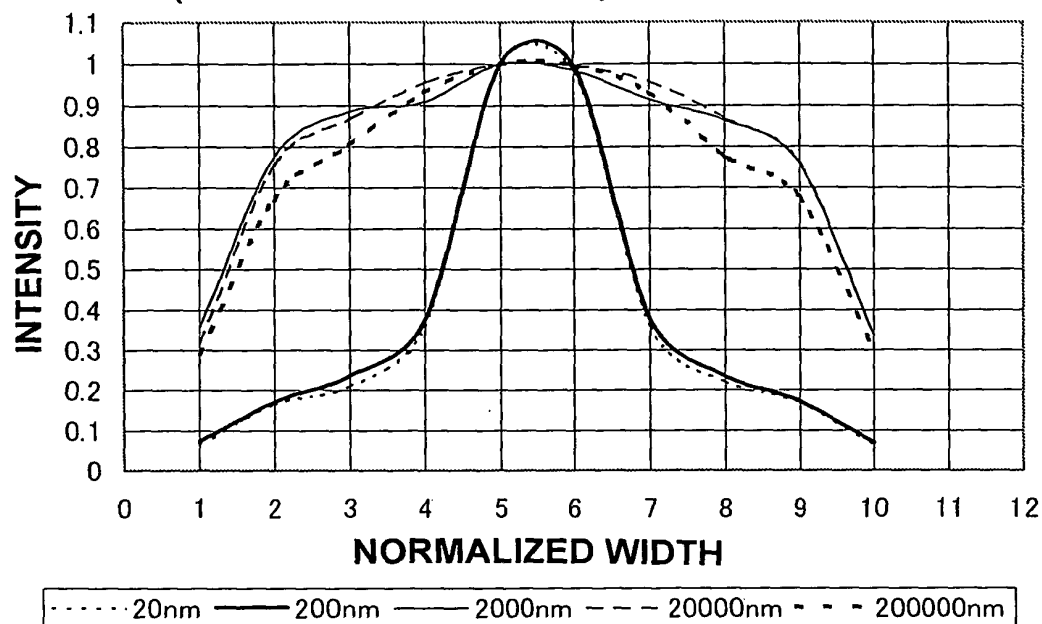


FIG.10

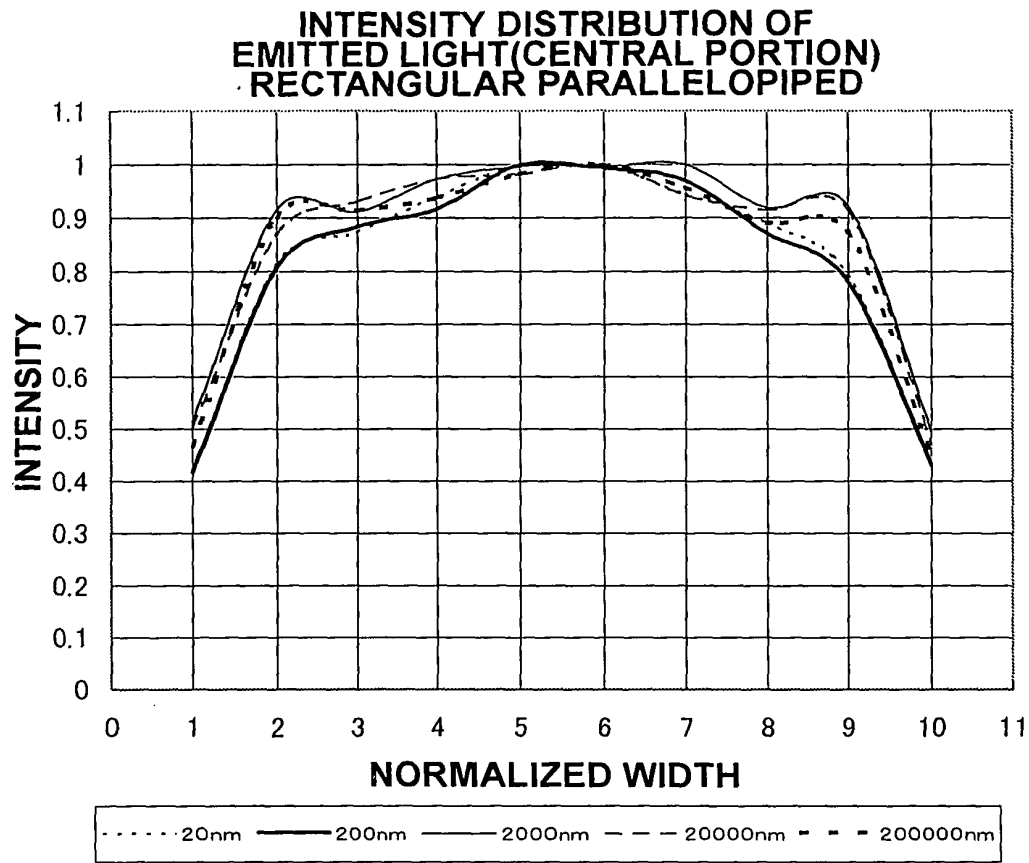


FIG.11

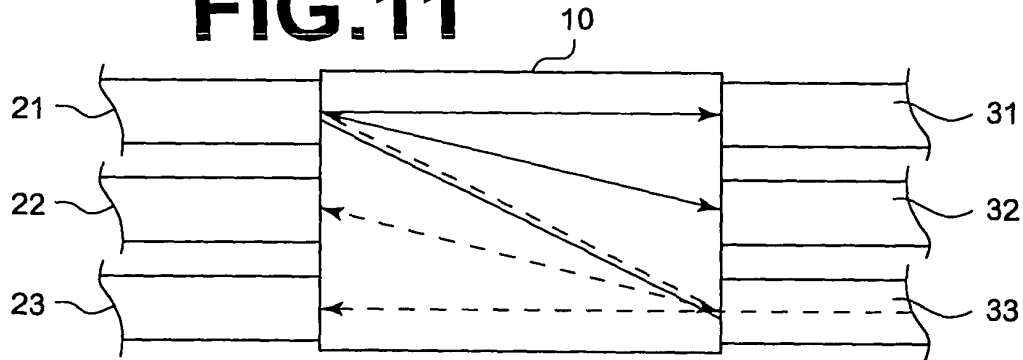


FIG.12

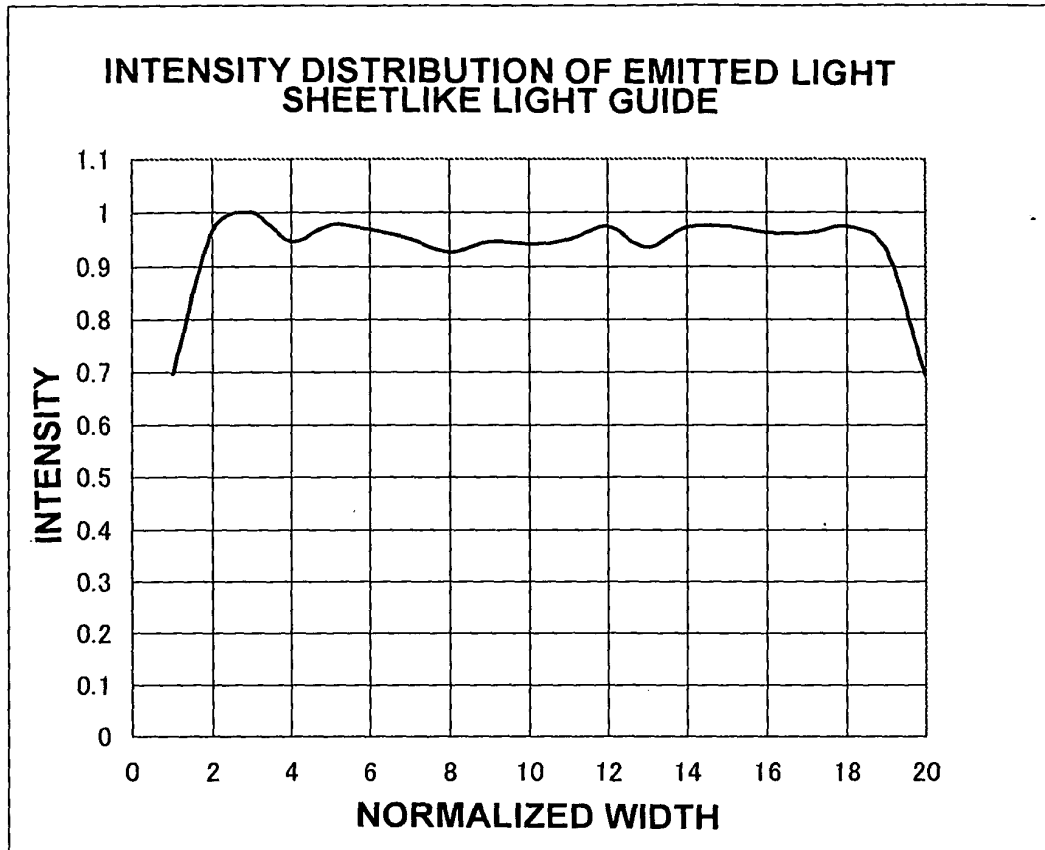


FIG.13

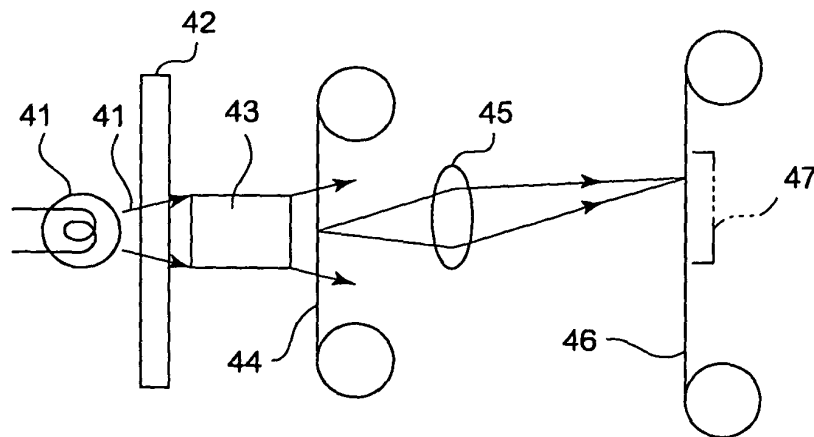


FIG.14A

INTENSITY DISTRIBUTION OF EMITTED LIGHT
 (CENTRAL PORTION)

MIRROR BOX(PARTICLE DIAMETER:10 μ m)

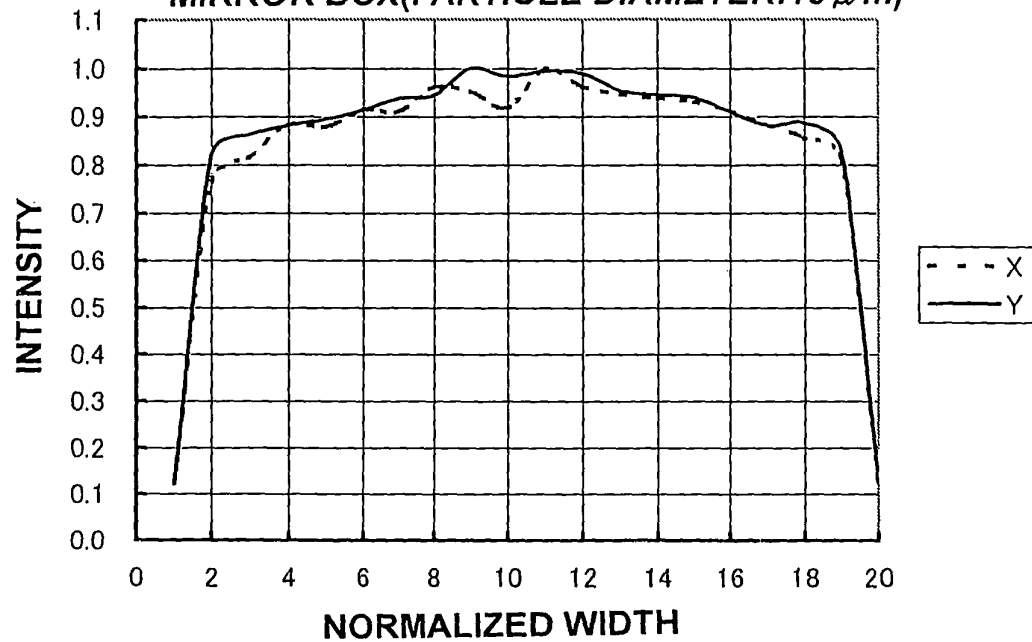


FIG.14B

3-DIMENSIONAL INTENSITY DISTRIBUTION
 OF EMITTED LIGHT

MIRROR BOX(PARTICLE DIAMETER:10 μ m)

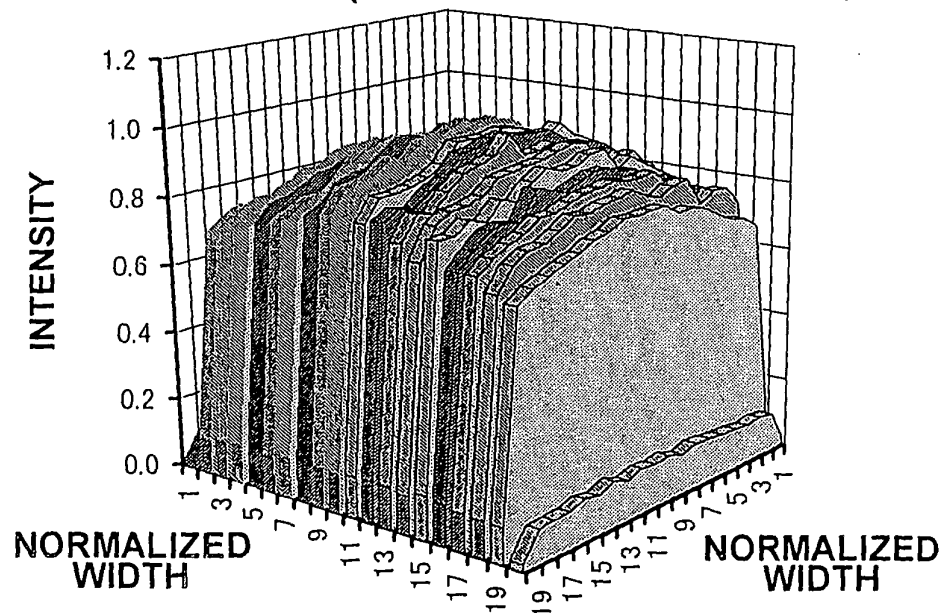


FIG.15

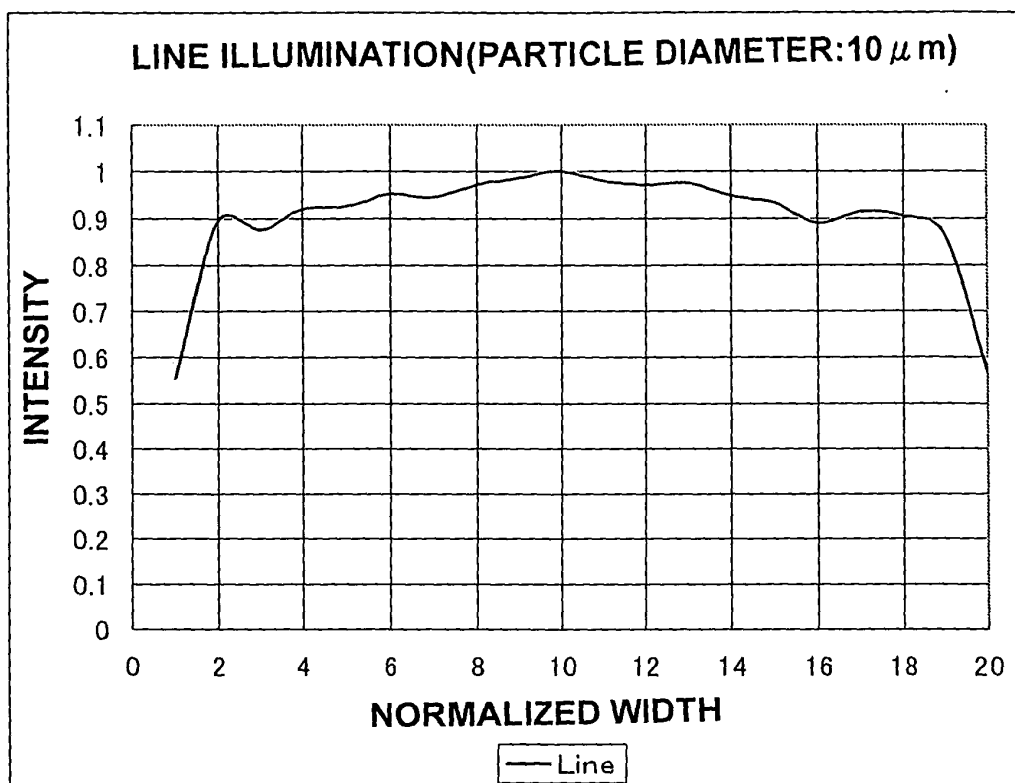


FIG.16A

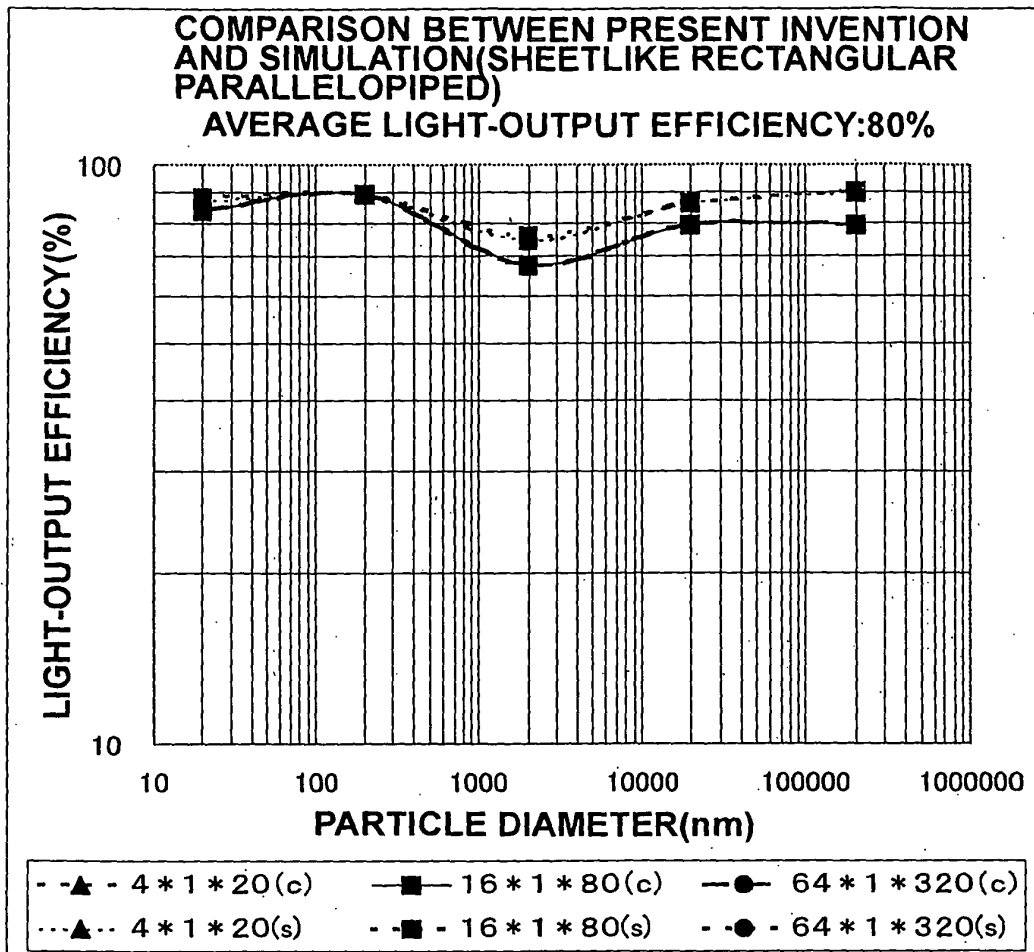


FIG.16B

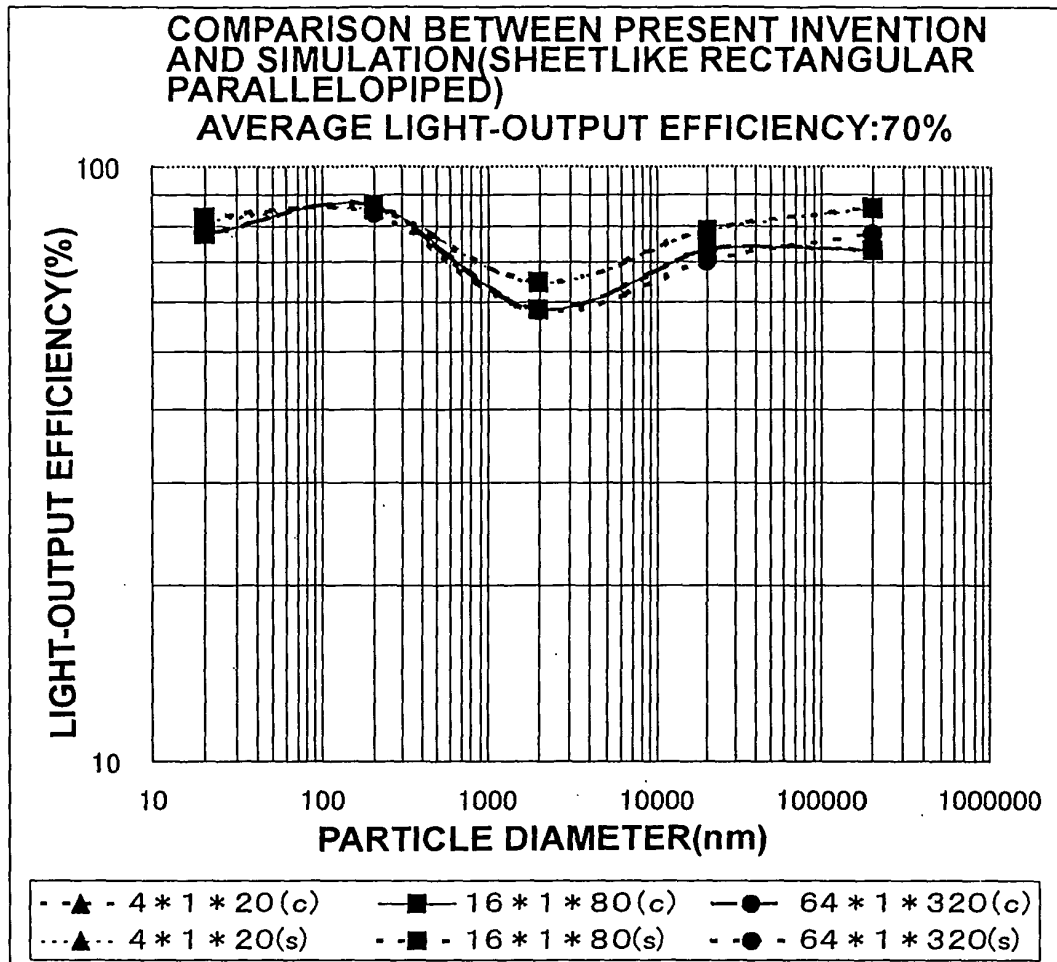


FIG.16C

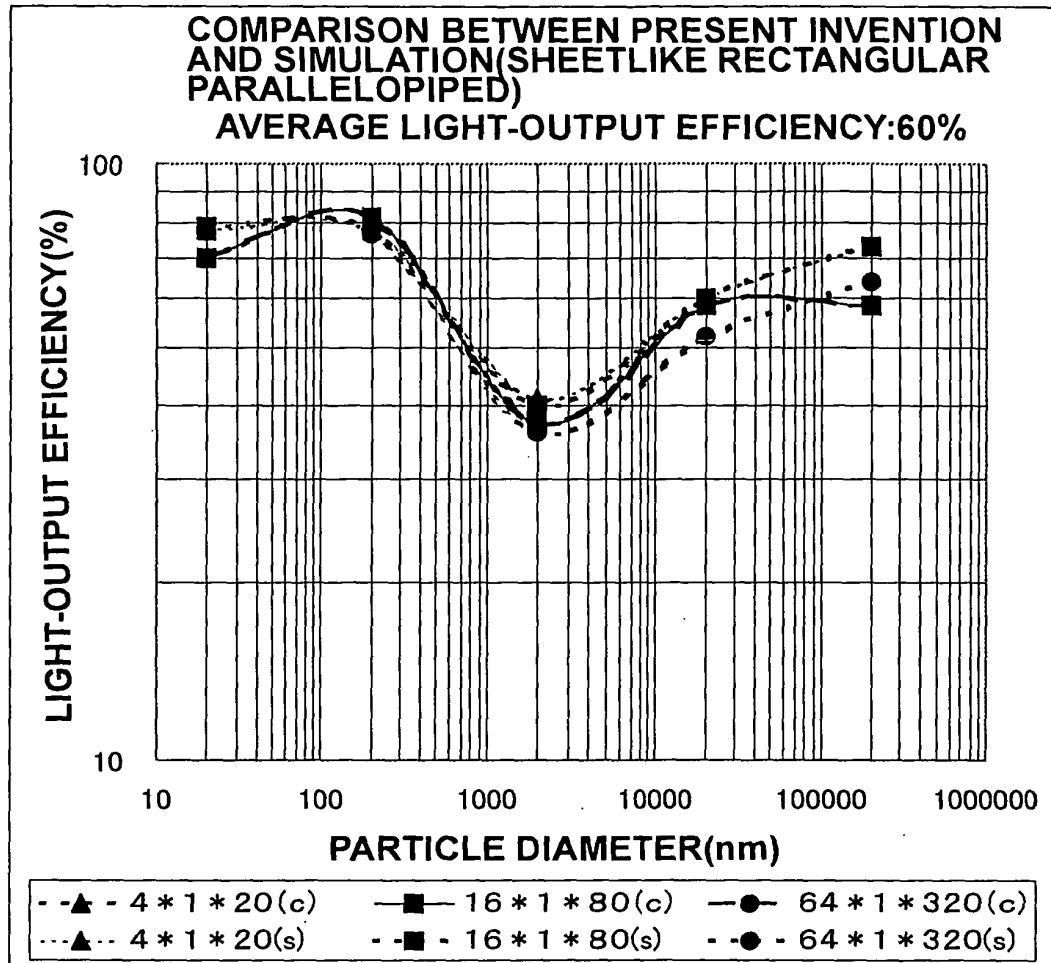


FIG.16D

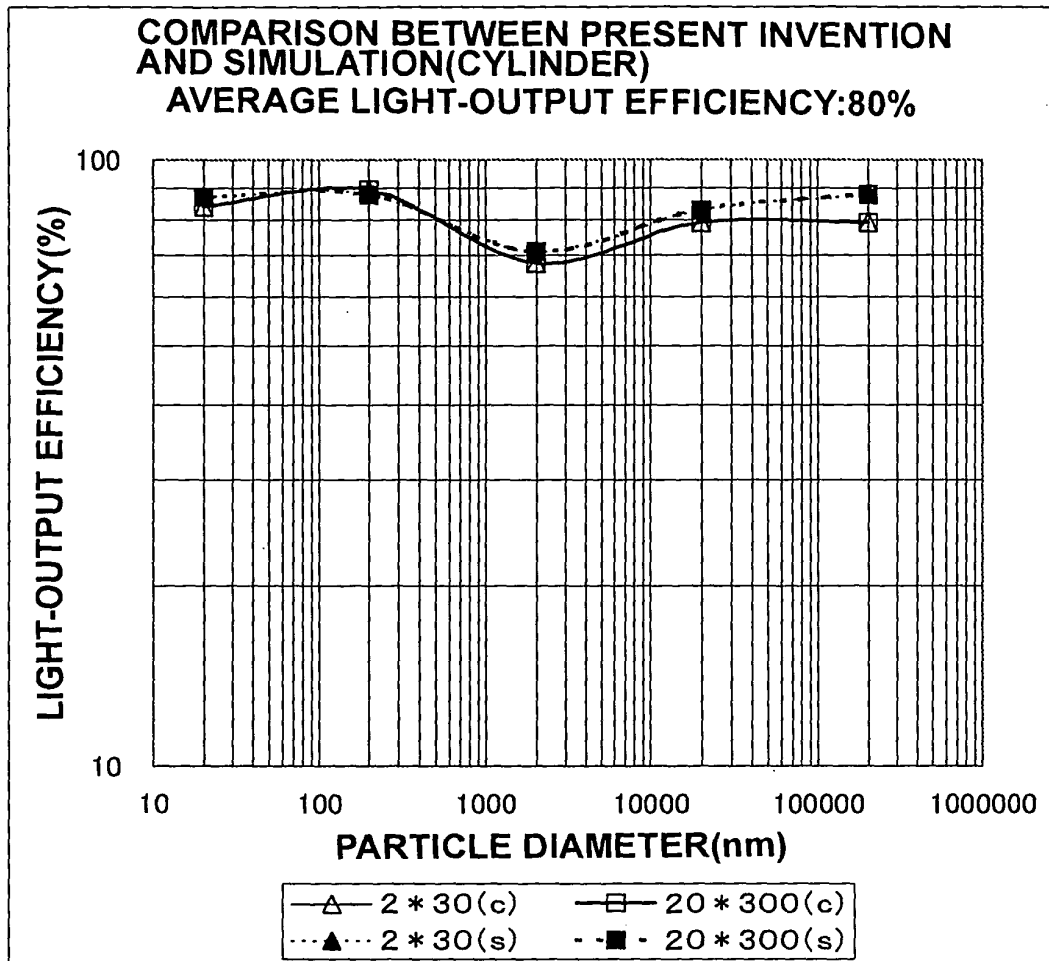


FIG.16E

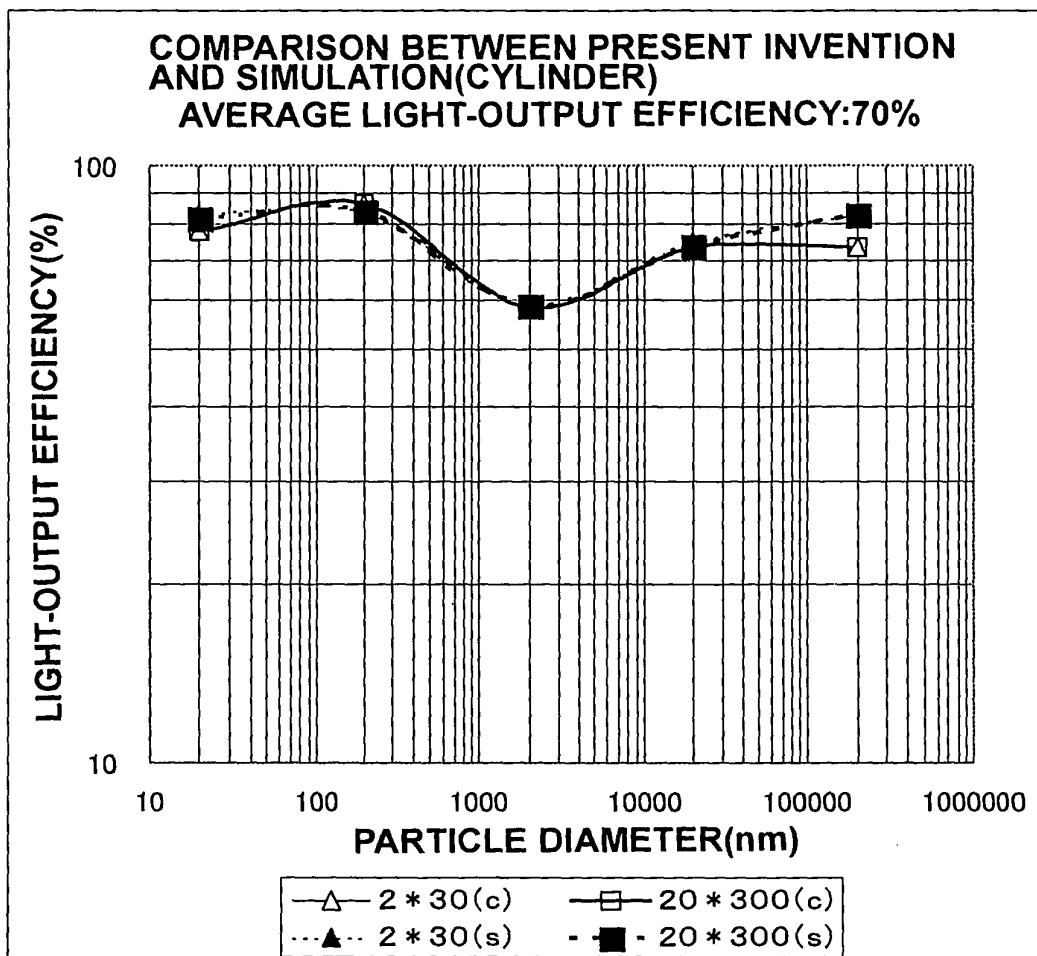


FIG.16F

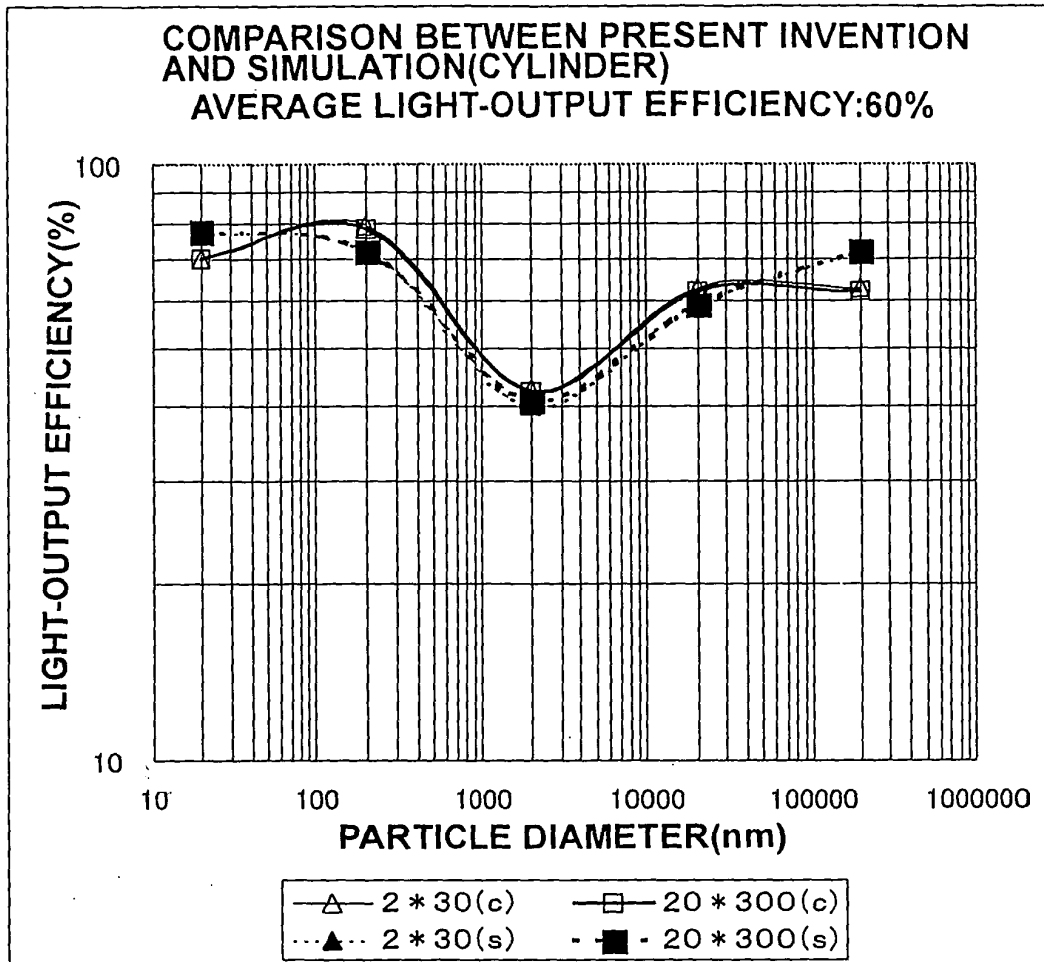


FIG.16G

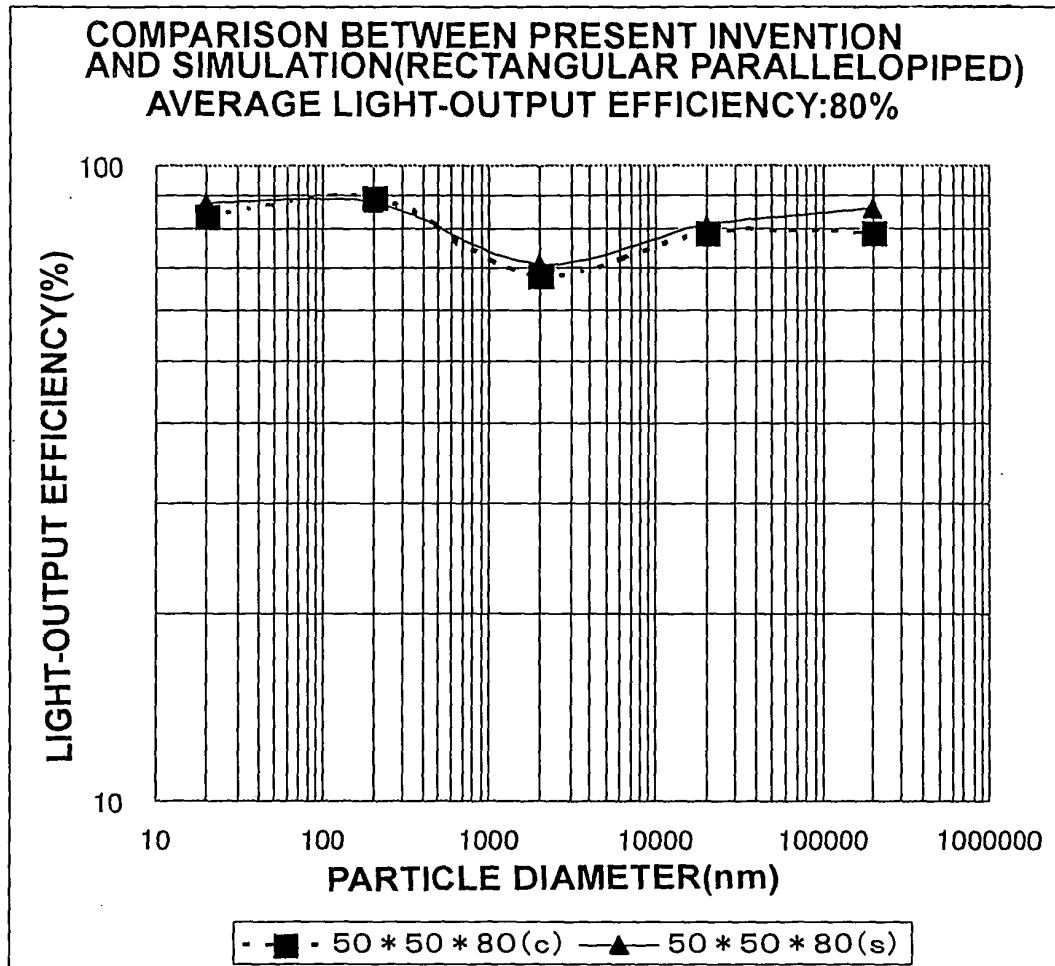


FIG.16H

COMPARISON BETWEEN PRESENT INVENTION
AND SIMULATION(RECTANGULAR PARALLELOPIPED)
AVERAGE LIGHT-OUTPUT EFFICIENCY:70%

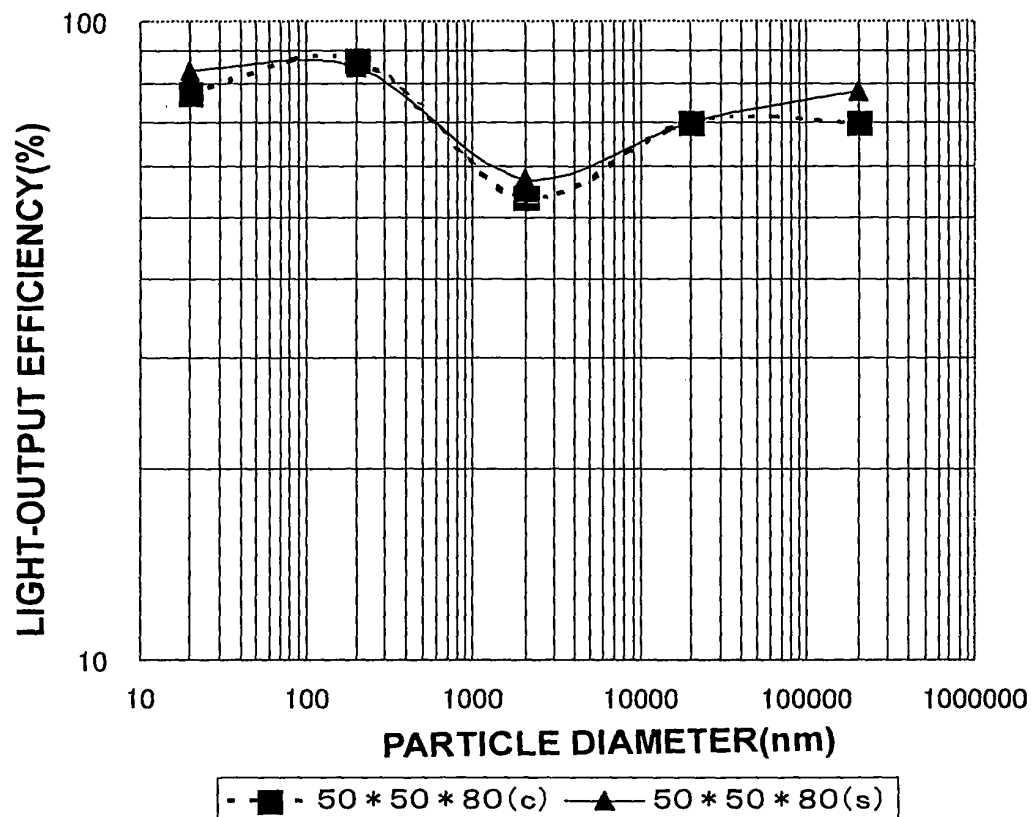


FIG.16I

